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UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.	9080-016-999	Total Pages	276			
First Named Inventor or Application Identifier						
Jonathan A. Usuka, et al.						
Express Mail Lahel No	EL 240 695 020	116				

APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents.			Assistant Commissioner for Patents ADDRESS TO: Box Patent Application Washington, DC 20231			
1.	X	Fee Transmittal Form Submit an original, and a duplicate for fee processing)		6. □ Microfiche Computer Program (Appendix)		
2.	X	Specification [Total Pages 6 Ipreferred arrangement set forth below]	<u>6</u>]	7. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)		
		-Descriptive title of the Invention		a. □ Computer Readable Copy		
		-Cross Reference to Related Applications				
		-Statement Regarding Fed sponsored R&D		b. Paper Copy (identical to computer copy)		
		-Reference to Microfiche Appendix		c. □ Statement verifying identity of above copies		
		-Background of the Invention	-	C. D Statement verifying identity of above copies		
	-Brief Summary of the Invention			ACCOMPANYING APPLICATION PARTS		
	L.i	-Brief Description of the Drawings (if filed)	ŀ			
	HA.	-Detailed Description of the Invention (including drawings, if filed)	ľ	8. Assignment Papers (cover sheet & document(s))		
		-Claim(s)	[9. □ 37 CFR 3.73(b) Statement □ Power of Attorney		
	End.	-Abstract of the Disclosure		(when there is an assignee)		
3.	8	Drawing(s) (35 USC 113) [Total Sheets _	<u>15</u>]	10. English Translation Document (if applicable)		
4.	X	Oath or Declaration (unexecuted) [Total Sheets	<u>2</u>]	11. Information Disclosure		
	a.	□ Newly executed (original or copy)	ł	12. Preliminary Amendment		
b □ Copy from a prior application (37 CFR 1.63(d)) # (for continuation/divisional with Box 17 completed)			13. Return Receipt Postcard (MPEP 503) (Should be specifically itemized)			
[Note Box 5 below]			-	14. Applicant claims Small Entity status, see 37 C.F.R. §		
	F.	i. DELETION OF INVENTORS(S)	1	1.27		
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33 (b).			15. □ Certified Copy of Priority Document(s) (if foreign priority is claimed)			
5.		Incorporation By Reference (useable if Box 4b is checked)	ŀ	16. ⊠ Other: Submission of Compact Disc		
	100	The entire disclosure of the prior application, from which a copy of oath or declaration is supplied under Box 4b, is considered as being		2 Compact Discs		
	Part of the	of the disclosure of the accompanying application and is hereby	g part			
	incorporated by reference therein.					
17.		a CONTINUING APPLICATION, check appropriate box and supply to Continuation □ Divisional ◎ Continuation-in-part (CIP)				
		18. CORRESPOND		r application No: 09/737,918 filed December 15, 2000 .		
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Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

The PTO did	Return post course

PENNIE & EDMONDS LLP

COUNSELLORS AT LAW 3300 Hillview Avenue Palo Alto, CA. 94304

ATTORNEY DOCKET NO. 9080-016-999

Date: December 11, 2001

Assistant Commissioner for Patents Box PATENT APPLICATION Washington, D.C. 20231

Sir:

The following utility patent application is enclosed for filing:

Applicant(s): Jonathan A. Usuka, Andrew Grupe and Gary Allen

Executed on: Unexecuted

Peltz

Title of Invention:

SYSTEM AND METHOD FOR PREDICTING CHROMOSOMAL REGIONS THAT CONTROL

PHENOTYPIC TRAITS

PATENT APPLICATION FEE VALUE

men.						
TYPE	NO. FILED	LESS	EXTRA	EXTRA RATE		FEE
Total Claims	71	-20	51	\$18.00 each	\$	918.00
Independent	10	-3	7	\$84.00 each	\$	588.00
%.] #	Minimum Fee Multiple Dependency Fee If Applicable (\$280.00)				\$	740.00
					\$	0.00
wik	Total					2,246.00
	Applicant qualifies for the 50% Reduction for Independent Inventor, Nonprofit Organization or Small Business Concern				- \$	0.00
	Total Filing Fee					2,246.00

- DO NOT PUBLISH. I hereby certify that the invention disclosed in the attached application has not and will not be the subject of an application filed in another country, or under a multilateral agreement, that requires publication at eighteen months after filing. I hereby request that the attached application not be published under 35 U.S.C. 122(b).
- □ Priority of application no. filed on in is claimed under 35 U.S.C. § 119.
- The certified copy of the priority application has been filed in application no. filed
- Amend the specification by inserting before the first line the following sentence: This is a continuation-in-part of application no. filed.

Please charge the required fee to Pennie & Edmonds LLP Deposit Account No. 16-1150. A copy of this sheet is

enclosed.

Respectfully submitted,

24,615

(Reg. N

PENNIE & EDMONDS LLP

Francis E. Morris

Enclosure

Express Mail No.: <u>EL 340 685 029 US</u>

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Jonathan Usuka et al.

Serial No.: To be assigned Group Art Unit: To be assigned

Filing Date: On even date herewith Examiner: To be assigned

For: SYSTEM AND METHOD FOR Attorney Docket No.: 9080-016-999

PREDICTING CHROMOSOMAL REGIONS THAT CONTROL PHENOTYPIC TRAITS

SUBMISSION OF COMPACT DISC

Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

In connection with the above-identified application, Applicants submit herewith one compact disc ("Copy 1") and a copy of the compact disc ("Copy 2") pursuant to 37 C.F.R. §§ 1.52(e)(3)(ii). "Copy 1" and "Copy 2" are identical. Applicants respectfully request the entry of the compact disc into the file. The machine format of each compact disc is IBM-PC, and the operating system compatibility is MS-DOS and MS-Windows.

The size of the files contained on the compact disc, their date of creation, their time of creation, and their name are found in the table below. In the table, each row represents a file, the size of the file in bytes is provided in column one, columns two and three respectively represent the date and time of file or directory creation while the fourth column represents the name of the file or directory.

Table 1. Contents of the Computer Program Listing Appendix

Size	Date of Creation	Time of Creation	File Name
32,366	12-10-01	3.35pm	Digidisease.pl
33,987	12-10-01	3:36pm	Display_dev.pm
11,837	12-10-01	3:36pm	Input_output_dev.pm
6,583	12-10-01	3:36pm	Locus_matrix.pl
5,141	12-10-01	3.35pm	Matrix_generator.pl

No fees are believed due in connection with this submission. However, if it is

determined that additional fees are due, please charge them to Pennie & Edmonds LLP Deposit Account No. 16-1150. A copy of this sheet is enclosed for accounting purposes.

Respectfully submitted,

Date: December 11, 2001

Francis E. Morris

(Reg. No. 24,615)

PENNIE & EDMONDS LLP

3300 Hillview Avenue

Palo Alto, California 94304

(650) 493-4935

Enclosures